



DELTAShield EASYSeal 1K AL

Single component, hand applied, Aliphatic Polyurethane waterproofing membrane.

DESCRIPTION

DELTAShield EASYSeal 1K AL is an aliphatic single component hand applied, cold cured, waterborne polyurethane waterproofing membrane.

DELTAShield EASYSeal 1K AL dries to form a flexible, seamless, waterproofing solution for a wide range of exposed waterproofing applications.

DELTAShield EASYSeal 1K AL is weather and UV resistant and is non-yellowing providing excellent heat reflection properties and good colour stability.

Simply, stir, pour and spread.

TYPICAL USES

- ✓ Waterproofing of both flat and sloped roof tops.
- ✓ Waterproofing of balconies, terraces and verandas
- ✓ General construction waterproofing - exposed.
- ✓ Waterproofing under plant and equipment on roof tops.
- ✓ Sealing and protecting concrete substrates.
- ✓ Sealing and protection of polyurethane insulation foam.

FEATURES

- ✓ Simple application – Squeegee / rake trowel, roller, brush or airless sprayer.
- ✓ Semi thixotropic makes it suitable for sloped surfaces.
- ✓ Completely seamless membrane. Zero welds, overlaps or joins.
- ✓ Cold applied and cold cured. No requirement for specialized application equipment.
- ✓ Does not require a top coat.
- ✓ Conforms exactly to substrate shapes.
- ✓ Excellent crack bridging properties.
- ✓ Excellent adhesion to nearly all substrates - concrete, steel, aluminum, wood, foam etc.
- ✓ Can transgress multiple substrate types in one application.
- ✓ Mechanical damage can be easily repaired.



PRODUCT INFORMATION

PROCESSING PROPERTIES	DATA
Mixing	Stir with a low-speed agitator. Avoid introducing air.
Material consumption [kg/m ² /1mm]	2 – 2.5kgs / m ²
Recommended thickness per layer	0.75 – 1mm.
Recommended layers	2
Rain resistance time (approx.)	4 – 6 hours
Over coat window [h]	30 minutes - 12 hours
Curing/loading after	@23C – 12 hours
Full cure	5 days
Temperature range for application (ambient) [°C]	0 – 40 C

Note: All data depends on site conditions. Ambient temperatures, substrate temperatures and humidity will all have an effect on stated data. Film thickness and application techniques can also affect the stated data.

PHYSICAL PROPERTIES	DATA	
Water vapor transmission rate [g/m ² *d]	ISO 15106-3	9 (at 23° C a. 85% relative humidity) 24,5 (at 38° C a. 90% relative humidity)
Solids content	DIN EN 827 / ASTM D-2697	65%
Tensile strength [MPa]	ISO 37-2005 / ASTM D-638	2.8
Elongation at break [%]	DIN 52455 / ASTM D-412	300
Hardness [Shore A]	ISO 868-2003 / ASTM D-2240	75
Water vapour resistance	EN:ISO 7783	420
Resistance to mechanical damage by static impression	In house lab	Good resistance
Resistance to water pressure	DIN EN 1928	No leak (1m water column 24 hours)
Crack bridging	In house lab	4 mm
Service temperature	In house lab	-20C to +90C
Pull off strength [N/mm ²]	ASTM D-903	Concrete: 2.5 (with primer)
Storage conditions [°C]	DIN EN 12701	10 – 30 (Avoid product freezing)
Shelf life		Approximately 12 months unopened and stored correctly



APPLICATION NOTES

- All substrates should be thoroughly cleaned and properly prepared before applying **DELTAShield EASYSeal 1K AL**. The concrete substrate should be in good condition, free from dust and loose particles. Cracks and crevices should be filled before applying **EASYSeal 1K AL**.
- The substrate should have sufficient fall to avoid standing water.
- It is recommended to seal porous low-quality concrete surfaces with **DELTAShield 2K SF** primer before applying **DELTAShield EASYSeal 1K AL**. Alternatively the first layer of **EASYSeal 1K AL** can be diluted with 20% water to increase substrate penetration.
- **EASYSeal 1K AL** can be applied on moist or wet surfaces providing there is no standing water.
- In the event the concrete substrate is cracked or is subject to movements a reinforcing mesh should be placed into the first layer of **EASYSeal 1k AL**. Into the first layer place the reinforcing mesh. Roll the mesh with a roller to impregnate into the first layer of **EASYSeal 1K AL**. When dry apply the second layer rolling it into the mesh.
- It is recommended to use mesh reinforcing on all wall / floor joints, upstands and transition points.
- Stir the contents of the container using a slow RPM stirrer. Avoid using a high-speed stirrer and introducing air into the **DELTAShield EASYSeal 1K AL**.
- It is recommended to apply 2 layers of **EASYSeal 1K AL** at a minimum of 1kg /m2 per layer.
- Pour the **DELTAShield EASYSeal 1K AL** onto the prepared substrate and spread using a rake trowel, roller or brush.
- Alternatively, **EASYSeal 1K AL** can be applied using an airless sprayer. It can be thinned with up to 20% water if required.
- If a slip resistance surface finish is required broadcast clean dry quartz aggregates into the final layer of **DELTAShield EASYSeal 1K AL** whilst it is still wet. NOTE – do not incorporate aggregates throughout all layers of **DELTAShield EASYSeal 1K AL** – only the final layer or in the top surface.

SAFETY AND HANDLING

- All applicators of **DELTAShield EASYSeal 1K AL** should be conversant with this product data sheet.
- **DELTAShield EASYSeal 1K** contains solvents.
- Avoid eye and skin contact.
- Store chemical drums in a cool dry environment. Avoid storing chemicals for long periods in direct sunlight.
- Do not store chemicals next to food products.
- Ensure packaging is kept tightly sealed and avoid ingress of air and moisture.
- Once the container has been opened all the contents should be used.

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own investigations and testing, the suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. Due to the large number of variables that can affect the product and the application process that are out of the control of DELTA Coatings International LLC no warranty of any kind, express or implied is given. The liability of DELTA Coatings International LLC for any claims is limited to the purchase value of the material.

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